

## Product datasheet for **RG222650**

### TESC (NM\_017899) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TESC (NM_017899) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TESC
Synonyms:	CHP3; TSC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222650 representing NM_017899 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGCCCGCTCCGGCCCCACGCGGAACCCGCGGCTCCGAGCCTTCGCCGGCGTCCCGACCCGAGGCC  
GGACCCGAGGCCAGTCCCGCCGCTGCGCAGCCGAAGCCAGTCCGGGGCTGAGAGGGACGCGGCCCCGG  
GGCCCCCGCCGGGCACCATGGGCGTGCCCACTCCGCGTCTGAGGAGGTGCGGGAGCTCGAGGGCAAG  
ACCGGCTTCTCATCGGATCAGATCGAGCAGCTCCATCGGAGATTTAAGCAGCTGAGTGGAGATCAGCCTA  
CCATTCGAAGGAGAAGTCAACAATGTCCCGGACCTGGAGCTCAACCCATCCGATCCAAAATTGTTTCG  
TGCTTCTTCGACAACAGGAACCTGCGCAAGGGACCCAGTGGCCTGGCTGATGAGATCAATTCGAGGAC  
TTCTGACCATCATGTCTACTTCCGGCCCATCGACACCACCATGGACGAGGAACAGGTGGAGCTGTCCC  
GGAAGGAGAAGCTGAGATTTCTGTTCCACATGTACGACTCGGACAGCGACGGCCGCATCACTCTGGAAGA  
ATATCGAAATGTGGTCGAGGAGCTGCTGTCCGGAAACCCACATCGAGAAGGAGTCCGCTCGCTCCATC  
GCCGACGGGGCCATGATGGAGGCGGCCAGCGTGTGCATGGGGCAGATGGAGCCTGATCAGGTGTACGAGG  
GGATCACCTTCGAGGACTTCTGAAGATCTGGCAGGGGATCGACATTGAGACCAAGATGCACGTCCGCTT  
CCTAACATGAAACCATGGCCCTCTGCCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG222650 representing NM\_017899  
Red=Cloning site Green=Tags(s)

MRPRSGPTRNPRRLRAFAGVPTGRTRGQSRRCAAEASAGPERDARPGAPAAGTMGAAHSASEEVRELEGK  
 TGFSSDQIEQLHRRFKQLSGDQPTIRKENFNVPDLELNPIRSKIVRAFFDNRNLRKGPSGLADEINFED  
 FLTIMSYFRPIDTTMDEEQVELSRKEKLRFLFHMYSDDSDGRITL E E Y R N V V E E L L S G N P H I E K E S A R S I  
 ADGAMMEAASVCMGQMEPDQVYEGITFEDFLKIWQGIDIETKMHVRF LN M E T M A L C H

TRTRPLE - GFP Tag - V

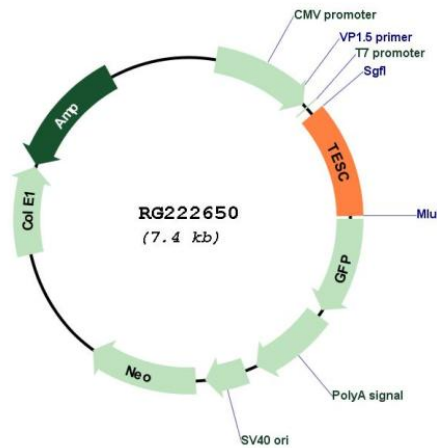
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_017899

**ORF Size:** 801 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_017899.2</a> , <a href="#">NP_060369.2</a>
<b>RefSeq Size:</b>	1025 bp
<b>RefSeq ORF:</b>	645 bp
<b>Locus ID:</b>	54997
<b>UniProt ID:</b>	<a href="#">Q96BS2</a>
<b>Cytogenetics:</b>	12q24.22
<b>Gene Summary:</b>	Functions as an integral cofactor in cell pH regulation by controlling plasma membrane-type Na(+)/H(+) exchange activity. Promotes the maturation, transport, cell surface stability and exchange activity of SLC9A1/NHE1 at the plasma membrane. Promotes the induction of hematopoietic stem cell differentiation toward megakaryocytic lineage. Essential for the coupling of ERK cascade activation with the expression of ETS family genes in megakaryocytic differentiation. Also involved in granulocytic differentiation in a ERK-dependent manner. Inhibits the phosphatase activity of calcineurin.[UniProtKB/Swiss-Prot Function]